

WHAT IS CLAIMED IS:

1. A condenser microphone apparatus comprising:
a movable electrode which vibrates by an acoustic vibration;
a fixed electrode arranged so as to face said movable electrode;
amplifying means for buffer-amplifying a voltage across said movable electrode and a voltage across said fixed electrode;
a bypass capacitor in which one end is connected to a signal output terminal of said amplifying means and the other end is connected to a common output terminal of said amplifying means; and
a series resistor inserted at least in one of an interval between said signal output terminal of said amplifying means and an output terminal of the apparatus and an interval between said common output terminal of said amplifying means and a common output terminal of the apparatus.

2. An apparatus according to claim 1, wherein at least one of said series resistor and said bypass capacitor is made of a multilayer film.

3. An apparatus according to claim 1, wherein said series resistor is formed by adhering a resistor onto a surface or an inner layer of a wiring circuit board.

4. An apparatus according to claim 1, wherein said series resistor is formed by filling a resistor

into a viahole of a wiring circuit board.

5. An apparatus according to claim 1, wherein said series resistor is installed on a board provided outside of the apparatus.
6. An apparatus according to claim 1, wherein an electrostatic shield is provided at least in one of an interval between said fixed electrode and said signal output terminal of the apparatus, an interval between said fixed electrode and said bypass capacitor, and an interval between said fixed electrode and said series resistor.
7. A condenser microphone apparatus comprising:
 - a movable electrode which vibrates by an acoustic vibration;
 - a fixed electrode arranged so as to face said movable electrode;
 - amplifying means for buffer-amplifying a voltage across said movable electrode and a voltage across said fixed electrode;
 - a bypass capacitor in which one end is connected to a signal output terminal of said amplifying means and the other end is connected to a common output terminal of said amplifying means; and
 - a serial circuit of a blocking capacitor and a damping resistor, in which one end is connected to said signal output terminal of said amplifying means and the other end is connected to the common output terminal of said amplifying means.

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8. An apparatus according to claim 7, wherein at least one of said bypass capacitor, said damping resistor, and said blocking capacitor is made of a multilayer film.

9. An apparatus according to claim 7, wherein said damping resistor is formed by adhering a resistor onto a surface or an inner layer of a wiring circuit board.

10. An apparatus according to claim 7, wherein said serial circuit of said blocking capacitor and said damping resistor is installed on a board provided outside of the apparatus.

11. An apparatus according to claim 7, wherein an electrostatic shield is provided at least in one of an interval between said fixed electrode and a signal output terminal of the apparatus, an interval between said fixed electrode and said blocking capacitor, and an interval between said fixed electrode and said damping resistor.

12. An apparatus according to any one of claims 1 to 11, wherein said amplifying means is constructed by a field effect transistor.

13. A connecting apparatus which is connected to a condenser microphone unit comprising: a movable electrode which vibrates by an acoustic vibration; a fixed electrode arranged so as to face said movable electrode; amplifying means for buffer-amplifying a voltage across said movable electrode and a voltage

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across said fixed electrode; and a bypass capacitor in which one end is connected to a signal output terminal of said amplifying means and the other end is connected to a common output terminal of said amplifying means,

wherein said connecting apparatus has a series resistor inserted at least in one of an interval between said signal output terminal of said amplifying means and an output terminal of the apparatus and an interval between said common output terminal of said amplifying means and a common output terminal of the apparatus.

14. A connecting apparatus which is connected to a condenser microphone unit comprising: a movable electrode which vibrates by an acoustic vibration; a fixed electrode arranged so as to face said movable electrode; amplifying means for buffer-amplifying a voltage across said movable electrode and a voltage across said fixed electrode; and a bypass capacitor in which one end is connected to a signal output terminal of said amplifying means and the other end is connected to a common output terminal of said amplifying means,

wherein said connecting apparatus has a serial circuit of a blocking capacitor and a damping resistor, in which one end is connected to said signal output terminal of said amplifying means and the other end is connected to the common output terminal of said amplifying means.

15. A connecting apparatus which is connected to a condenser microphone unit comprising: a movable

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electrode which vibrates by an acoustic vibration; a fixed electrode arranged so as to face said movable electrode; and amplifying means for buffer-amplifying a voltage across said movable electrode and a voltage across said fixed electrode,

wherein said connecting apparatus has a bypass capacitor in which one end is connected to a signal output terminal of said amplifying means and the other end is connected to a common output terminal of said amplifying means, and

a series resistor inserted at least in one of an interval between said signal output terminal of said amplifying means and an output terminal of the apparatus and an interval between said common output terminal of said amplifying means and a common output terminal of the apparatus.

16. A connecting apparatus which is connected to a condenser microphone unit comprising: a movable electrode which vibrates by an acoustic vibration; a fixed electrode arranged so as to face said movable electrode; and amplifying means for buffer-amplifying a voltage across said movable electrode and a voltage across said fixed electrode,

wherein said connecting apparatus has a bypass capacitor in which one end is connected to a signal output terminal of said amplifying means and the other end is connected to a common output terminal of said amplifying means, and

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a serial circuit of a blocking capacitor and a damping resistor, in which one end is connected to said signal output terminal of said amplifying means and the other end is connected to the common output terminal of said amplifying means.

17. An apparatus according to claim 13 or 15, wherein said series resistor is made of a resistive fiber or a conductive rubber.
18. An apparatus according to claim 13 or 15, wherein at least one of said series resistor and said bypass capacitor is made of a multilayer film.
19. An apparatus according to claim 14 or 16, wherein at least one of said bypass capacitor, said damping resistor, and said blocking capacitor is made of a multilayer film.
20. An apparatus according to claim 13 or 15, wherein said series resistor comprises a spring terminal connector constructed by a resistive spring contact.
21. An apparatus according to claim 13 or 15, wherein said series resistor is formed by adhering a resistor onto a surface or an inner layer of a wiring circuit board.
22. An apparatus according to claim 14 or 16, wherein said damping resistor is formed by adhering a resistor onto a surface or an inner layer of a wiring circuit board.